

September 7, 2018

SUSAN LEE
IL OPERATOR CERTIFICATION

The following water/wastewater operator has applied to South Dakota to receive an Operator Certificate thru reciprocity. South Dakota will grant certificates by reciprocity to operators coming from states where their certification program is of a standard not lower than ours and will extend reciprocal privileges to our operators.

Please answer the following questions concerning your operator certification program so that the South Dakota Board of Operator Certification may make a decision at their next Board meeting (September 11, 2018) as to whether certification should be granted.

Name Karl Frederick Merbach

Address 2657 Black Saddle, Rapid City SD 57701 57706

605-939-9299

License Held II Wastewater Treatment Class 1

What is the education requirement (HS graduation, years of post-secondary, etc.) for this license(s)?

HS graduation

What is the work experience requirement for this license(s)?

96 months - 1/2 can be substituted by college, collection system, public water supply experience and wastewater courses.

Was a written exam taken to gain this license(s)? yes

What type of questions is on the exam? 100 multiple wastewater operations questions

What is the minimum score to pass the exam? 70

Is your certification program mandatory? yes

Is this license(s) valid at this time? yes

Will your program grant reciprocity to all South Dakota water and wastewater operators if minimum requirements are met? Note-South Dakota will grant reciprocity on a case-by-case basis. We compare the education/work experience requirements for your certificate with the requirements for our SD certificates. We do NOT review the education/experience of the operator himself. It is also required that your state will grant reciprocity to our operators coming to your state.

yes

Comments We will grant reciprocity with SD if minimum requirements are met - this will be done on a case by case basis.

Name and title of person completing this form-

Roger Callaway, Manager Wastewater Compliance Section

Please check which certificates your agency issues-

☒ Water Treatment

☒ Water Distribution

☒ Wastewater Treatment

☒ Wastewater Collection

South Dakota's Operator Certification Law can be found at-

<http://legis.sd.gov/statutes/DisplayStatute.aspx?Type=Statute&Statute=34A-3>

Our regulations are contained within- <http://legis.sd.gov/rules/DisplayRule.aspx?Rule=74:21:02>

Feel free to write your answers on this sheet, and please include a copy of your regulations concerning Operator Certification. Please email or fax your reply if possible. If there are any questions on this matter, feel free to contact me in Pierre. Thank you for your help.

Sincerely,

Rob Kittay

Rob Kittay-Secretary
Board of Operator Certification
523 E Capitol

Pierre SD 57501

Phone: 605-773-4208

Fax: 605-773-5286

E-mail: rob.kittay@state.sd.us

Web Site: <http://denr.sd.gov/des/dw/opcertqa.aspx>

4. What are the eligibility requirements for each certification level?

Class 4	1 year wastewater operating experience and high school education or equivalent
Class 3	3 years wastewater operating experience and high school education or equivalent
Class 2	6 years wastewater operating experience and high school education or equivalent
Class 1	8 years wastewater operating experience and high school education or equivalent
Class K	Active supervision and/or operation of an industrial wastewater treatment facility
Operator-In-Training Basic	3 months wastewater operating experience or 1 wastewater course
Operator-In-Training Intermediate	1 year wastewater operating experience
Operator-In-Training Advanced	3 years wastewater operating experience and high school education or equivalent
Collection System Operator	1 year collection system operating experience and high school education or equivalent

6. Was an exam passed to acquire this certificate? Check one. Yes ☒ No ☒

7. Is this certificate valid with all fees up-to-date? Check one. Yes ☒ No ☒

EDUCATION AND TRAINING

Are you a high school graduate? Check one. Yes ☒ No ☐ GED ☐ If no, year completed _____

College/Vo-tech Name	Dates Attended	Major	Date Graduated
Northern Illinois University	1988-1991	MA Public Administration	May, 1991
South Dakota State University	19974-1978	BS Microbiology/minor Chemis	May 1978

List other educational courses completed such as correspondence school, operators' short courses, etc. Give date, name, and location of such courses.

Over the 32 years I have participated in and facilitated many operation, maintenance, and leadership trainings at all levels of competency, with safety being a key part of all continuing education. Notable training includes serving as a presenter at a WEF pre-conference workshop in Chicago and participating in specialized training at a workshop in Tennessee on Anaerobic Treatment of High Strength Industrial and Agricultural Waste. Courses completed include all levels of the California O&M courses, safety, activated sludge, disinfection and ammonia removal.

WATER/WASTEWATER OPERATION EXPERIENCE

Present Position Title City of Rapid City- Solid Waste Superintendent Date Employed 2010

Supervisor Name and Title Dale Tech, PWD & Dave Van Cleave- Wastewater Superintendent

Describe in detail your daily duties as related to the exam for which you are applying (Be Specific!)

Operator of record for industrial pretreatment permit discharges to Rapid City sanitary sewer, including sampling and reporting of three leachate discharge points. Other work included direct discharge stormwater facilities, including inspection, monitoring and compliance with NPDES discharge permit. Biosolids treatment and compliance with EPA 503 requirements overseeing compliance to create a Class A biosolids used in composting municipal solid waste organics.

List other job experience which you feel will pertain to your certification qualifications.

Dates	Employer Name/Location	Specific Job Duties Related to Exam Applied For
2007-2010	EMC- Sioux City Iowa Wastewater treatment	Operator of record supervising treatment and pretreatment o
2005-2007	EMC City of Oregon, IL- Water/Wastewater	Oversee operation and maintenance municipal water and wa
2004-2007	EMC City of Fort Wayne, IN Water/Wastewater	Oversee operation and maintenance of surface water treatm

I hereby certify that this application contains no willful misrepresentations or falsifications and that the information given is true and complete.

Signature Karl Merbach

Date 09/07/2018

Oper#	
Cert Date	
Reciprocity Approved	Yes <input type="checkbox"/> No <input type="checkbox"/>
Cash	Check
DENR Use Only	

Environmental Protection Agency

State of Illinois

KARL MERBACH

having fulfilled the requirements therefore, is hereby awarded this

Certificate of Competency

as a

Class 1

Wastewater Treatment Works Operator

qualified to operate Group 1, 2, 3, & 4 wastewater treatment works

Issued this 6TH day of SEPTEMBER A.D. 1983


Director

KARL F. MERBACH

OBJECTIVE

Environmental compliance of public and private properties in a professional and cost-effective manner, with emphasis on fiscal responsibility, regulatory compliance, safety, and service excellence to all customers and stakeholders.

SUMMARY OF PROFESSIONAL EXPERIENCE

2010-2018 **City of Rapid City**

Rapid City, SD

Superintendent of Solid Waste Operations

- Responsible for operation and management 450 ton per day landfill, recycling and composting operations and weekly collection of 20,000 including residential curbside collection accounts. Accountability for environmental compliance and regulatory reporting, personnel management staff of 50, safety compliance and training and financial responsibility for \$8.0 million annual budget.

2007-2010 **American Water Enterprises**

Sioux City, IA

Facility/Operations Manager- City of Sioux City Wastewater Treatment Facility

- Responsible for management of 30 MGD wastewater plant and pump stations system, including environmental compliance and regulatory reporting, personnel management staff of 23, safety compliance and training and financial responsibility for \$3.0 million annual budget.

1993- 2007 **Environmental Management Corporation** Various Locations

- *EMC Facility Manager- Water and Wastewater Operations, Oregon, IL-* Responsible for management of daily municipal water supply and distribution & 0.7 MGD wastewater plant and collection system, including regulatory reporting, financial management, and client service.
- *EMC Utility Operations Specialist- Interim Facility Manager – Perdue Farms Wastewater Monterey, TN.* Interim management of 0.5 MGD industrial wastewater facility. Responsible for treatment of high strength food production wastewater from poultry processing operation
- *EMC Utility Operations Manager- Ft. Wayne Water Filtration and Wastewater Treatment Ft. Wayne, IN.* Management of 60 MGD secondary wastewater treatment facility and 72 MGD surface water treatment facility. Responsibilities oversight of 9 management and 72 union personnel, regulatory compliance, budget control of \$11 million annual budget.
- *EMC Facility Manager– Swift and Company Beef Wastewater Treatment Facility, Nampa, ID,* Operation and management secondary direct discharge wastewater treatment facility. Management responsibilities include personnel supervision of two full-time operators, NPDES reporting and compliance, client relations, budget administration, and water system compliance.
- *EMC Minnesota Regional Manager– Dairy Farmers of America Wastewater Facility, Fergus Falls, MN.* Operational responsibility of 0.75 MGD industrial pretreatment facility. Duties include daily process control of secondary activated sludge facility, laboratory testing, and maintenance of wastewater facilities for City pretreatment permit compliance.

2657 BLACK SADDLE ROAD, RAPID CITY, SD 57703
PHONE (605) 939-9299 • E-MAIL: EMCKARL@AOL.COM

- *Facilities Manger – City of Evansville Wastewater Operations, Evansville, IN.* Responsible for all Evansville operations including cleaning and maintenance of 470 miles of sanitary and combined sewers, 68 lift stations, 23 CSO's, two secondary Wastewater Treatment Plants (18.0 and 20.6 MGD), and budget planning and administration of \$5.0 million operating budget, administration of 14 management and 60 union staff. Winner of 1999 Burke Safety Award presented by Indiana Water Pollution Control Association.
- *Facilities Manger – City of Monmouth Wastewater Treatment Operations, Monmouth, IL.* Responsible for City of Monmouth 4.2 MGD municipal treatment plant and 1.0 MGD secondary industrial wastewater plant treating waste from 6,000 head per day hog slaughtering operation. Responsible for environmental compliance, employee safety programs, and industrial monitoring.

1982 - 1993 **City of Dixon**

Dixon, IL

Superintendent – City of Dixon Wastewater Operations & Pubic Works Assistant

- Responsible for wastewater operations including 3.8 MGD treatment plant and collection system. Public works responsibilities included one-year interim management of municipal cemetery, development of residential solid waste pick up and municipal landfill programs, and capital planning and project management.

EDUCATION/CERTIFICATIONS

1991 **Northern Illinois University**

DeKalb, IL

Master of Arts - Public Administration

- Emphasis in Urban Management Phi Alpha Alpha Honor Society

1978 **South Dakota State University**

Brookings, SD

B.S. Microbiology/ Minor: Chemistry

- Solid Waste Association of North America- Manager of Landfill Operations Certificate
- Iowa Class IV Wastewater Operator Certificate
- Illinois Class 1 Certificate of Wastewater Competency
- Illinois Class C Certificate of Water Distribution & Treatment Competency
- Idaho Class IV Wastewater Operations Certificate
- Idaho Class 1 Water Operator and Distribution System Operator Certificates
- Minnesota Class A Wastewater Facilities Operator
- Indiana Class IV Wastewater Certificate
- Registered Microbiologist – American Society of Microbiologists
- Six Sigma Greenbelt Certificate- City of Ft. Wayne

PROFESSIONAL MEMBERSHIPS AND COMMUNITY ACTIVITIES

- Member Water Environment Federation
- Member American Water Works Association
- Past Southwest Indiana Executive Board Representative – IWPCA 1996-1998
- Past President Illinois Association of Water Pollution Control Operators 1989-1990
- Past President- South Dakota Solid Waste Association 2015-2016
- Toastmasters International- Distinguished Toastmaster Achievement 2016
- Toastmasters International- Past District Director- 2017-2018
- President- Cosmopolitan Club- Rapid City 2018-2019
- Classroom Volunteer- Junior Achievement of South Dakota 2013-2018
- Big Brother- Big Brother/Big Sisters of the Black Hills 2012-2018

STATE OF IOWA WASTE WATER SYSTEM CERTIFICATE

KARL MERBACH

in accordance with State Law is qualified as an operator in:

Treatment Grade 4

Operator ID 8303

Given under the hands of the Iowa Department of
Natural Resources on October 17, 2007

FOR THE DIRECTOR:

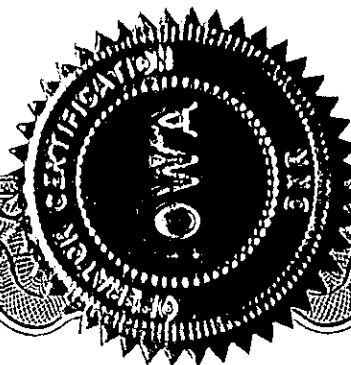


KARL MERBACH
OPERATOR ID # 8303

Waste Water - Treatment - Grade 4

Expiration Date : June 30, 2011

ATTACH RENEWAL CERTIFICATE HERE AFTER EACH
RENEWAL OF YOUR CERTIFICATE



THIS CERTIFICATE REMAINS THE PROPERTY OF THE DEPARTMENT OF NATURAL RESOURCES



STATE OF IDAHO



IDAHO BOARD OF DRINKING WATER AND WASTEWATER PROFESSIONALS

Certifies That

Karl F. Merbach

having documented compliance with the prescribed qualifications, and having fulfilled the requirements of the Laws of Idaho, is hereby granted licensure to practice as a

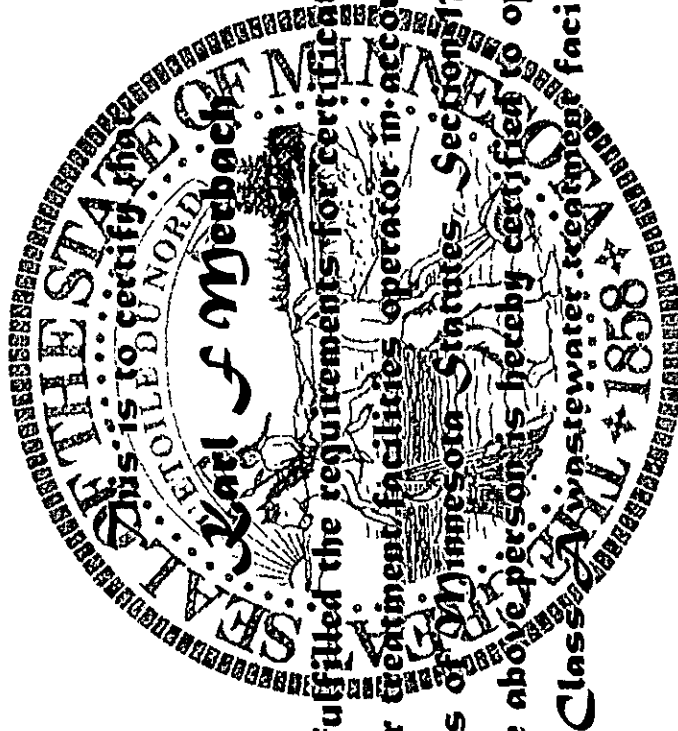
**WASTEWATER OPERATOR
TREATMENT - CLASS IV**
within the State of Idaho

IN TESTIMONY WHEREOF, I have here unto put my hand and affixed the Official Seal of the Bureau of Occupational Licenses at Boise, Idaho, this 1st day of March, A.D. 2004

Paula D. [Signature]
CHIEF, BUREAU OF
OCCUPATIONAL LICENSES

MINNESOTA POLLUTION CONTROL AGENCY

WASTEWATER TREATMENT FACILITY OPERATOR CERTIFICATE



has fulfilled the requirements for certification as a
wastewater treatment facilities operator in accordance with the
provisions of Minnesota Statutes, Section 115.71 - 115.77.
The above person is hereby certified to operate a
Class A Wastewater treatment facility.

Issue Date: 07/01/2000
Expiration Date: 07/01/2003
Certificate Number: A - 159392



Karen A. Studders
Karen A. Studders, Commissioner

STATE OF INDIANA
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
WASTEWATER TREATMENT PLANT OPERATION

CERTIFICATE OF COMPETENCY

THIS CERTIFIES THAT

KARL F. MERBACH

has fulfilled the requirements for certification as a
wastewater treatment plant operator in accordance with
IC-13-1-6, and is hereby certified to operate a

IV

CLASS

WASTEWATER TREATMENT PLANT

No. 13282

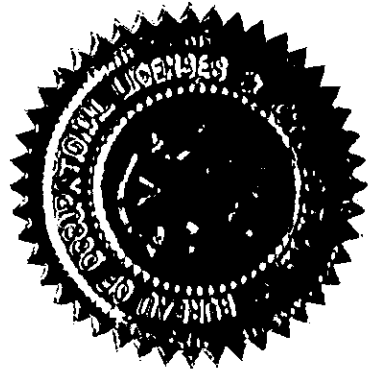
Kathy Paez
ENVIRONMENTAL COMMISSIONER

January 25, 1996

THIS CERTIFICATE IS VALID ONLY WHEN SUBSTANTIATED BY A CURRENT OPERATOR CARD.



STATE OF IDAHO



IDAHO BOARD OF DRINKING WATER AND WASTEWATER PROFESSIONALS

Certifies That

Karl F. Merbach

having documented compliance with the prescribed qualifications, and having fulfilled the requirements of the Laws of Idaho, is hereby granted licensure to practice as a

**DRINKING WATER OPERATOR
DISTRIBUTION - CLASS 1**
within the State of Idaho

IN TESTIMONY WHEREOF, I have here unto put my hand and affixed the Official Seal of the Bureau of Occupational Licenses at Boise, Idaho, this 1st day of March, A.D. 2004

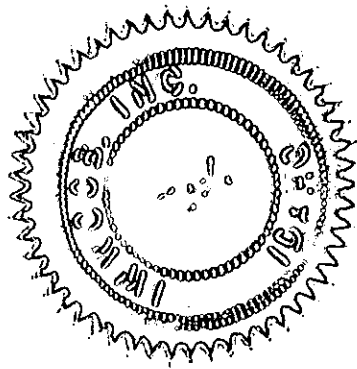
Russell J. Jacobsen
CHIEF, BUREAU OF
OCCUPATIONAL LICENSES

IDAHO MANDATORY WATER OPERATOR CERTIFICATE

*This is to certify that KARL F MERBACH by examination, training and experience
has qualified for a DISTRIBUTION SYSTEM OPERATOR - CLASS I certification*

*In accordance with the Idaho Rules for Public Drinking Water Systems, IDAPA 58.01.08 effective April
15, 2000 as administered by the Idaho Water and Wastewater Operators Certification Boards, Inc.
relative to Operating Personnel for Public Drinking Water Systems*

In testimony whereof Certificate No. 03-277 has been issued the 10th of September, 2003



Terry Werner

Terry Werner, Chairman
Idaho Water & Wastewater
Operators Certification Board, Inc

Urban H Wessels

Urban H Wessels, Executive Director
Idaho Water & Wastewater
Operators Certification Board, Inc

Environmental Protection Agency State of Illinois

KARL F. HERBACH

having fulfilled the requirements therefore, is hereby awarded this
Certificate of Competency

as a

Class

C

Public Water Supply Operator

BY EXAMINATION



No. 5372

Awarded this 12th day of January A.D. 1982

A handwritten signature in cursive script, appearing to read "Richard F. Herbach".

Director